on not obese Whether the mouse is weight obese This mouse doesn't weight that much but considered obesed for itsize (may be due to "Weight This mouse have high weight When we're doing logishe regression still not considered obeset the y axis is converted to the because they might have lots of probability of mover is obese. muscle However if we want to classify the mice as obese or not obese, then we need a way to turn the probabilities into classification, probability > 0.5 then obose - One way to classify is to set a threshold at 0.5. suppose we get a four new set of mice who are NOT OBESE(X) Actual Tespectively Obesed | Not obesed (obsect) 1 Predicted not obesed Obesed Not obesed (Not obesed) 0 + - 1 Pred (A) Prediction (B) suppose if is super important to correctly classify every obese sample, we can set All 4 obesed (0) sample are now classified as obesed. the threshold to 0.1. Not obesed (obesid) 1 obesed -> Lower threshold would also reduced the number (Not obsed) 0 of Folse - Negative (F) because all the obesed mire are correctly classified, and it would reduce True Negative (Tru) because two of the mice that -> So why we should decrease, the threshold? were not obese were incorrectly classified as obese Suppose ope are testing concer or not concer, then we should correctly classify who have to correctly classify every non-obesidenice concer even if it means to decrease threshold Totherway we can increase the threshold to 0.9 -> We don't have any Actual obesed , Not obesed false positive 0 -> With higher threshold, does a better job classif samply as obese and

